ASOS ERRATA SHEET 1 (for Electronics Technicians)
Engineering Division
W/OSO321:BGM/AJW

Errata to ACU Memory Firmware Version 2.3 and ACU CPU Firmware 1.81.
Reference Modification Note 31, EHB-11, Section 3.6

GENERAL

A date problem in the World Meteorological Organization header has been identified in ACU firmware Version 2.3. The local date, instead of the Greenwich mean time date, is inserted when a corrected observation is generated. This problem may have operational impacts and technicians must get authorization from their regional office prior to installing modification notes 31 and 32.

This errata sheet provides additional information for Modification Note 31. Two additional problems have been identified with the new ACU firmware version 2.3.   First, the OID display screen loses the bottom line of the display box and second, pressure sensor data quality errors occur after the firmware is installed. After ACU firmware 2.3 is installed, complete the following procedures. Setup the OID to add another screen line, and deconfigure and reconfigure the pressure sensors.

Several copies of the ACU CPU firmware version 1.81 EPROMS have been found to be bad. Technicians should check all uninstalled firmware copies of ACU CPU version 1.81.

PROCEDURES

 Follow this procedure to correct the bottom line on all display screens.

1. Enter the Setup mode by pressing **F3** (ASCII keyboard)
2. Use the right arrow to select the **Screen** setup menu.
3. Select **Screen data lines** from the pull down menu.
4. Use the space bar to increment from 24 to 25 lines.
5. Use the left arrow to exit.
6. Select **Exit setup and save**. Press Enter and "Y"
7. On the keyboard numeric pad enter zero twice.
8. This completes the terminal setup.

Follow this procedure after installing ACU firmware 2.3.

1. First install the ACU firmware 2.3 as described in Modification Note 31.
2. After the installation of ACU firmware 2.3, deconfigure and reconfigure all pressure sensors. Reference the ASOS Site Technical Manual, Chapter 8, Table 8.5.5, entitled "Clearing Pressure Sensor Data Quality Failures."
3. This completes the deconfiguration and reconfiguration for the pressure sensors.

4.   This procedure must be completed after total loss of system power.

This procedure provides guidance for checking the ACU CPU firmware 1.81.

1.   This is easily accomplished by installing each set of ACU CPU firmware 1.81 in the spare CPU board. Install in any ASOS and apply power. If the CPU fail light and halt light illuminates red, the firmware is bad. Return the bad firmware to NRC. Each technician, at his/her earliest convenience, must **EMERGENCY** order two sets of firmware.   Use ASN: S100-1A2A1-U29 when ordering. The new firmware sets have been verified at NRC, and must be used by the technician(s) if they have any bad firmware.

EFFECT ON OTHER INSTRUCTIONS
Updates to Modification Note 31.

Acting Chief, Engineering Division

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